

## Utah Weekly Pertussis Update

2019 data, through MMWR week ending April 6 (MMWR week 14)

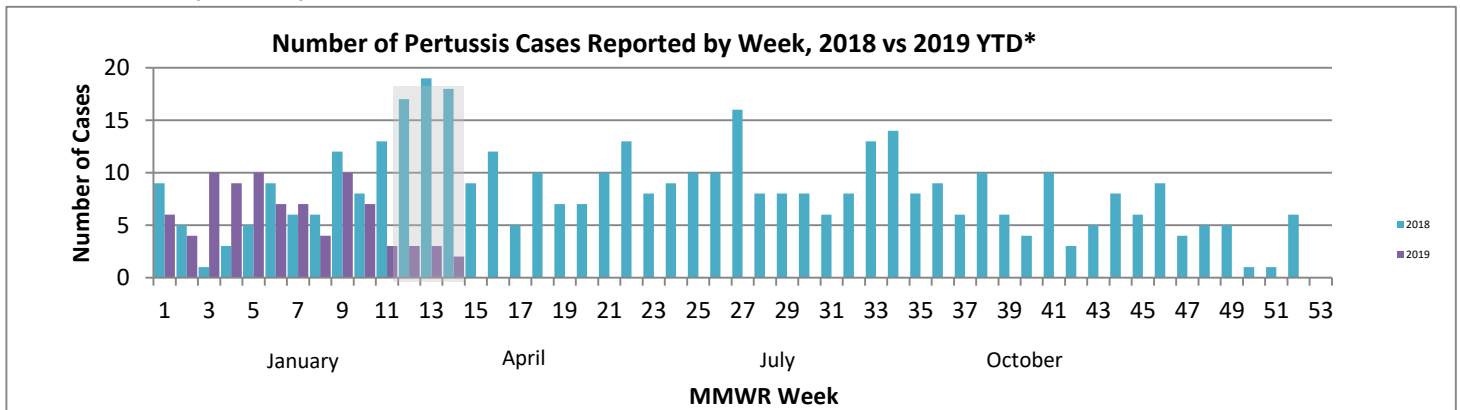
Data presented in this report are based on current data available and will be subject to change weekly.

### Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	85	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	10.2
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	2	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	131	2019 Hospitalizations	2
Age groups with the highest rates	<1 1-4	2019 Cases in infants <1 year	4

\*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	4	51,401	29.0
1-4	15	203,799	27.4
5-14	23	521,331	16.4
15-24	14	495,829	10.5
25-34	8	457,423	6.5
35-44	9	422,547	7.9
45-54	6	317,532	7.0
55-64	5	296,399	6.3
65+	1	335,572	1.1
Unknown	0	-	-
Total	85	3,101,833	10.2

\* Rate is calculated per 100,000 person years.

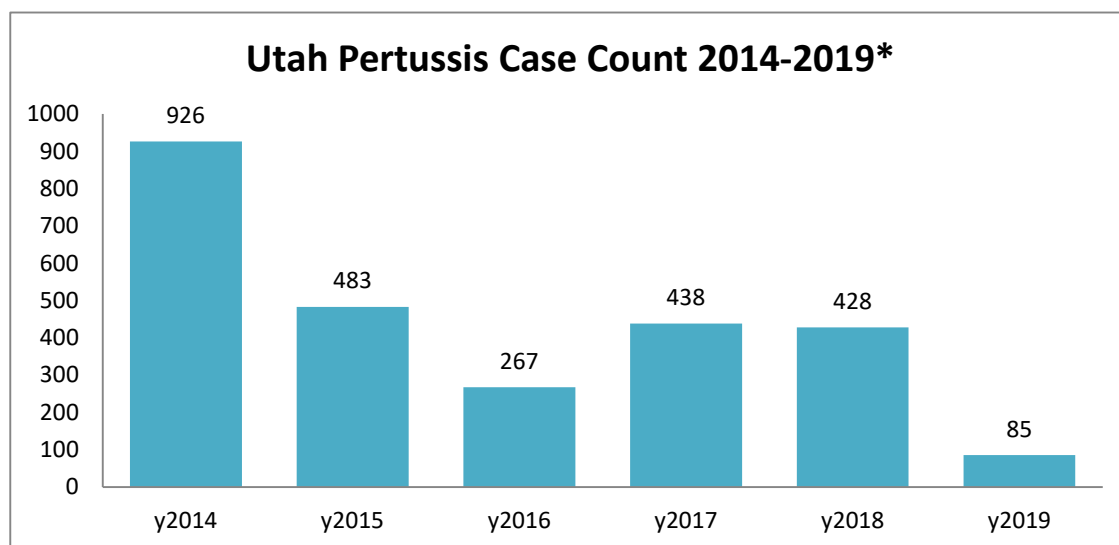
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	5	102,181	18.2
Kindergarten	5	0	49,869	0.0
1	6	4	51,269	29.1
2	7	0	52,299	0.0
3	8	1	52,131	7.1
4	9	4	53,612	27.8
5	10	3	53,712	20.8
6	11	1	52,765	7.1
7	12	6	52,359	42.7
8	13	2	51,910	14.3
9	14	2	51,405	14.5
10	15	2	49,974	14.9
11	16	1	49,983	7.5
12	17	3	50,211	22.3

\* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2014-2019\* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward. 2019 data, through MMWR week ending January 5 (MMWR week 1)

## Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	1	2.1
Central Utah	0	0.0
Davis County	1	1.1
Salt Lake County	41	13.4
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	14	22.1
Summit County	0	0.0
Tooele County	3	16.6
TriCounty	0	0.0
Utah County	11	6.8
Wasatch County	1	11.6
Weber-Morgan	13	18.4

\* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

